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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 10

Application Number 10/722,798  
Filing Date November 26, 2003  
First Named Inventor Jack Chen  
Art Unit 2837  
Examiner Name Renata D. McCloud  
Attorney Docket Number M319

## ENCLOSURES (Check all that apply)

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☒ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) \_\_\_\_\_
- ☐ Landscape Table on CD

- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):  
Certificate of Correction

Certificate  
DEC 04 2007  
of Correction

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name Robert L. Marsh  
Signature *Robert L. Marsh*  
Printed name Robert L. Marsh  
Date November 28, 2007 Reg. No. 25894

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature *Robert L. Marsh*

Typed or printed name Robert L. Marsh

Date Nov 28, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DEC 4 2007



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of : Jack Chen  
US Patent No. : 7,221,115 B2  
Serial No. : 10/722,798  
Issued : May 22, 2007  
For : Method and Apparatus for Controlling  
Multiplexed Motors  
Examiner : Renata D. McCloud  
Group : 2837  
Attorney Docket No. : M319

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**PETITION FOR CERTIFICATE OF CORRECTION UNDER 35 USC 254  
AND UNDER 37 CFR 1.322**

Honorable Commissioner of Patents and Trademarks  
P. O. Box 4468  
Alexandria, Virginia 22313-1450

Sir:

If any additional charges or fees must be paid in connection with this communication, they may be paid out of our deposit account no. 50-0783.

The patentee hereby petitions for a Certificate of Correction as shown on the attached page. With the exception of the very first correction, which is minimal, the addition of the word "in," all meaningful corrections are to errors made by the patent office. Most of the corrections are made near the bottom of Column 5 and fall into claim 1, although the final correction falls into claim 3. Of the corrections to the claims, all but one changes a noun from the singular to the plural or from the plural to the singular. In

three places the word "contacts" is changed to the word "contact," the word "column" is changed to the word "columns," and the word "row" is changed to the word "rows." The only significant change to the claims is the substitution of the word "source" for the word "surface." This and all the corrections to the claims are printing errors made on behalf of the Patent Office.

Enclosed is a copy of the first six pages of the Amendment filed in this matter on November 2, 2006 showing the status of the claims at the end of the prosecution of the application. I have added in the margins the erroneous language printed in the patent and circled the correct language in red. Since all the significant errors were made by the Patent Office and not by the patentee, the applicant believes that the Certificate of Correction should be entered without cost to the patentee. Entry of the Certificate of Correction is therefore requested without charge to the patentee.

Respectfully submitted,



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RLM:ksc



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Jack Chen  
Serial No. : 10/722,798  
Filed on : November 26, 2003  
For : Method and Apparatus for Controlling  
Multiplexed Motors  
Group Art : 2837  
Examiner : Renata D. McCloud  
Attorney Docket No. : M319

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Honorable Assistant Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

**AMENDMENT**

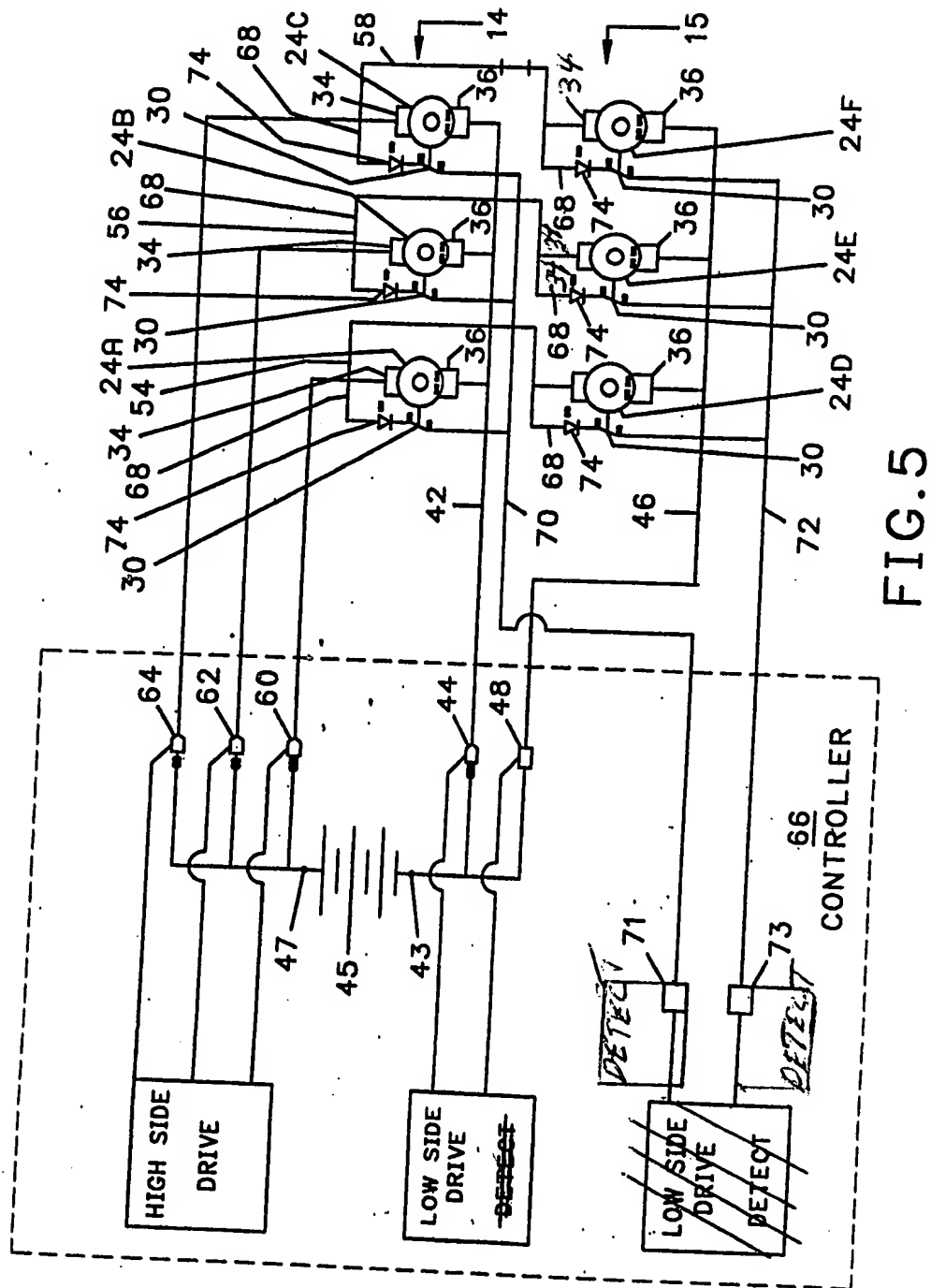
Sir:

If any additional charges or fees must be paid in connection with this  
communication, they may be paid out of our deposit account No. 50-0783.

*FILED NOV 2, 2006*

# Drawing Amendments

Please amend Fig. 5 of the drawings as shown in red below:



## Claim Amendments

Please amend the claims as follows:

1. (canceled)

2. (canceled)

3. (currently amended) The method of controlling a plurality of motors for stopping said motors at a home orientation wherein each of said motors has a first contact, a second contact, and an output shaft, said plurality of motors being configured in a grid having columns and rows with said first contact of all of said motors in one of said columns connected in parallel by a first wire to a first pole of a source of electric power through a first switch and said second contact of all of said motors in one of said rows connected in parallel by a second wire to a second pole of said source of electric power through a second switch, wherein one of said plurality of motors in a first column and in a first row is energized by closing said first switch of said first column and said second switch of said first row to direct directing electric power across said first contacts of said first column and across said second contacts of said first row, said method controller comprising the steps of:

*Printed on col 5 line 44 as "contacts"*  
*Printed in column 5 line 45 as "column"*  
*Printed column 5 line 46 as "source"*  
*Printed col 5 line 47 as "contacts"*  
*Printed col 5 line 48 as "row"*

providing a switch on each of said plurality of motors wherein said switch has a first contact, a second contact, an open position, and a closed position,

providing means on ~~each~~ said output shaft of each of said plurality of motors for actuating said switch thereon when said shaft is at said home orientation,

connecting said first contact of said switch to said first contact of said motors for each of said plurality of said motors,

providing means for detecting a change in electric potential, and

connecting said second contact of said switches of each of said plurality of motors of said first row of said plurality of motors in parallel by a third wire to said means for detecting a change in electric potential ~~by a detector line wherein said detector line is independent of a circuit for applying power to said plurality of motors,~~ and wherein said means for detecting will detect a change in potential when said shaft of said one of said plurality of motors rotates to its said home orientation, and

opening said first switch of said first column and said second switch of said first row when said detector detects said change in potential to stop further rotation of said one of said plurality of motors.

4. (original) The method of claim 3 and comprising the further step of providing means in series with said switch for preventing a reverse current through said switch.

5. (currently amended) In a control for controlling a plurality of motors for stopping said motors at a home orientation wherein each of said motors has a first contact, a second contact, and an output shaft, said plurality of motors being configured *printed col 6 line 23 as "contacts"* in a grid having columns and rows with said first contact of all of said motors in ~~one of said columns connected in parallel wherein said first contact of said plurality of motors~~

~~of~~ a first of said columns ~~are~~ connected in parallel by a first wire through a first switch to a first pole of a source of electric power and said second contact of all of said motors in a first of said rows ~~are~~ connected in parallel by a second wire through a second switch to a second pole of said source of electric power, wherein said control applies electric power to one of said plurality of motors in a said first column and in said first row is energized by closing said first and second switches and directing electric power across said first contacts of said first column and said second contacts of said first row, a switch on each of said plurality of motors, said switch on each of said plurality of motors having a first contact, a second contact, an open condition and a closed condition, and for each of said plurality of motors means on said output shaft thereof for actuating said switch thereon when its said shaft is in its said home orientation, the improvement in said control comprising:

for each one of said plurality of motors, said first contact of said switch thereon connected to said first contact of said motor,

means for detecting a change in electric potential, and

for each one of said plurality of motors in said first row of motors said second contact of said switch thereon connected in parallel to said means for detecting a change in electric potential by a third wire ~~detector line independent of a circuit to apply power to said motor,~~ wherein said means for detecting will detect a change in potential when said first and second switches are closed and said output shaft of said one of said plurality of motors has rotated to its said home orientation, and



said controller terminates further rotation of said one of said plurality of motors by opening said first switch and said second switch when said means for detecting detects said change in potential.

6. (currently amended) The improvement of claim 5 and further comprising means in series with said switch on each of said plurality of motors for preventing a reverse current through said switch thereon.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,221,115 B2

APPLICATION NO.: 10/722,798

ISSUE DATE : May 22, 2007

INVENTOR(S) : Jack Chen

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 5, line 5, after "switch 60" insert --in--

In column 5, line 44, after "first" delete "contacts" and substitute --contact--

In column 5, line 45, after "said" second occurrence, delete "column" and substitute --columns--

In column 5, line 46, after "of a" delete "surface" and substitute --source--

In column 5, line 47, after "second" delete "contacts" and substitute --contact--

In column 5, line 48, after "said" delete "row" and substitute --rows--

In column 6, line 23, after "first" delete "contacts" and substitute --contact--

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Robert L. Marsh  
P. O. Box 4468  
Wheaton, IL 60189-4468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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